

ecology and environment, inc.

NEW BROTHERHOOD BLDG., SUITE #374, 8TH & STATE, KANSAS CITY, KANSAS 66101, TEL. 913-371-3213

International Specialists in the Environmental Sciences

MEMORANDUM

TO: William J. Keffer, Chief, EP&R
FROM: Gary E. Kepko, FIT
DATE: April 26, 1983
SUBJECT: Sample Results - Verona, Missouri
TDD R-07-8302-11

JDB
To: Syntex Verona
EL #: MO007452154
Break: 3.3
Other: E+E
4-26-83

0751



40032137
SUPERFUND RECORDS

INTRODUCTION

On February 17, 1983, the Ecology and Environment, Inc. (E&E) Field Investigation Team (FIT) was tasked under TDD R-07-8302-11 to investigate certain areas in the Verona, Missouri area. Specific elements of the scope of work included the following:

- A. Sample and have analyzed for 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) the Empire District Electric Company well #3, the Carter residence well and the Martin residence well.
- B. Sample and have analyzed for TCDD areas at the E. S. Haddock farm, specifically the area along the fence line north of Syntex property and a drainage ditch from the fenceline to the Spring River.
- C. Interview John Moore, mayor of Verona, Missouri (Tel: 417/498-6935) concerning a pond allegedly used by the North-east Pharmaceutical Company (NEPACO) to dispose of wastes.

RESULTS

Sample #	Sample Location	Results ^{7,8} (ppb 2,3,6,7-TCDD)
AQ3401	Carter Residence Well	0
AQ3402	Martin Residence Well	0
AQ3403	Empire Dist. Electric Co. Well #3	0
AQ3404	Haddock Farm, Fenceline	0
AQ3405	Haddock Farm, Fenceline	1.27
AQ3406	Haddock Farm, Slough	5.56
AQ3407	Haddock Farm, Slough	8.44
AQ3408	Haddock Farm, Slough	0

(See attached site sketch for exact locations)

The above results were obtained in a telephone conversation with Robert D. Kleopfer, EPA, on April 22, 1983.

PERSONAL INTERVIEWS

Mr. John Moore, mayor of Verona, Missouri, was interviewed concerning a pond that had been used by NEPACO for waste disposal. Mr. Moore was made aware of the pond by Mr. Kenneth Gooden of McKinley, Missouri. Mr. Gooden (tel. 417/463-2872 or 417/678-4005) was subsequently interviewed about the alleged pond. The pond is now closed and the Miller Gray subdivision was built on it. The subdivision is located on the old Verona-Aurora Road. Mr. Gooden stated that he knew two people who would be willing to talk to an EPA representative concerning "midnight dumping" practiced by NEPACO at the pond and at an old farm west of the subdivision. The farm consisted of several ravines that were filled with drums and then covered with soil. Mr. Gooden stated that there may also be an additional dump site in McKinley, Missouri. Mr. Gooden claimed that he provided all the information he had on all three sites to a representative of the Missouri Department of Natural Resources at a public hearing held in Verona, Missouri two years ago.

CONCLUSIONS

Results of samples obtained from the E. S. Haddock farm indicate the need for additional sampling to determine the areal extent of contamination. We recommend additional sampling along the slough area which would entail determining ownership of the slough north of the barbed wire fence, obtaining access, and sampling the slough. Also, the banks on either side of the slough, offset approximately 5 feet from the centerline, should be sampled. The extent of contamination along the fenceline should be determined by developing a grid pattern extending north from the fence and sampling the points on the grid at different depths.

After interviewing people concerning the additional alleged NEPACO disposal sites, we commend a series of geophysical work be performed. A combination of magnetometer measurements, electromagnetic measurements of conductance and resistivity measurements can be used to determine the location and depth of buried drums, plumes of contaminants, and the location of covered ravines not readily obtained from maps or photographs. After obtaining the results of the geophysical surveys a rational sampling plan can be developed.

GK:sw
Attachments

Spring River
South



Slough Area
E. S. Haddock Farm
North
2/24/83

